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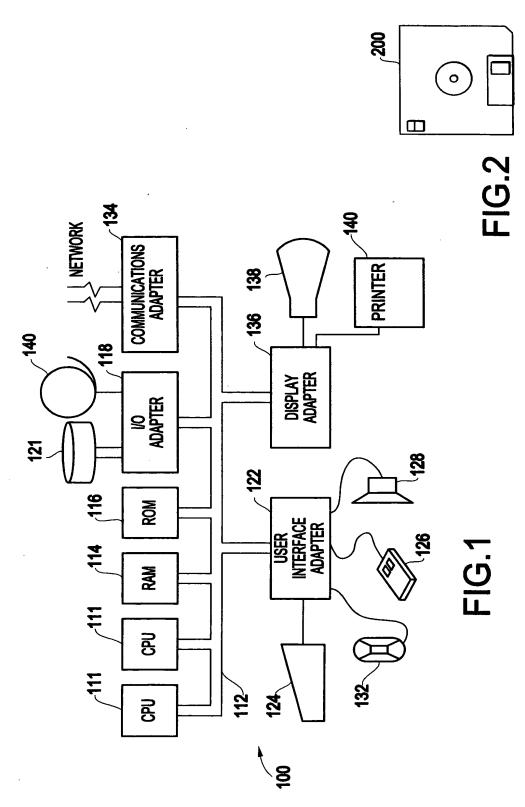
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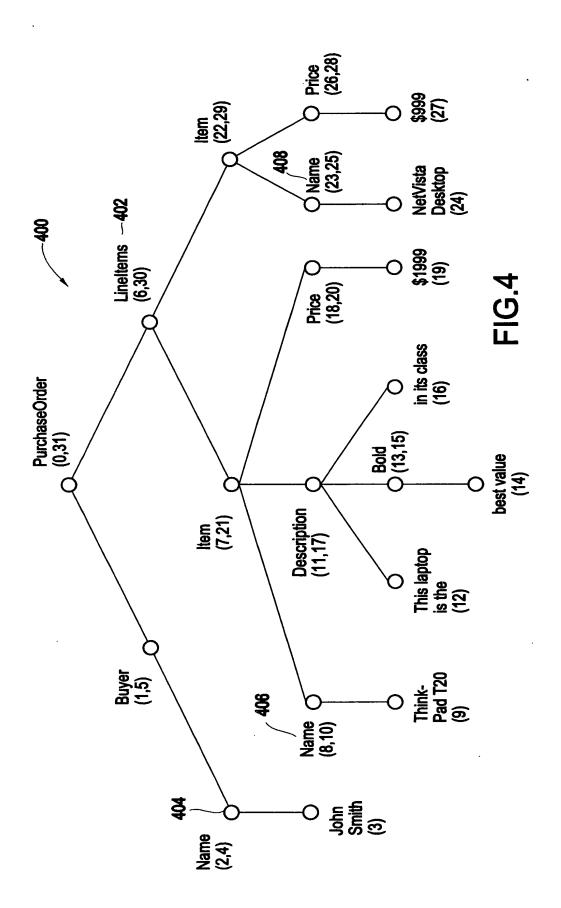
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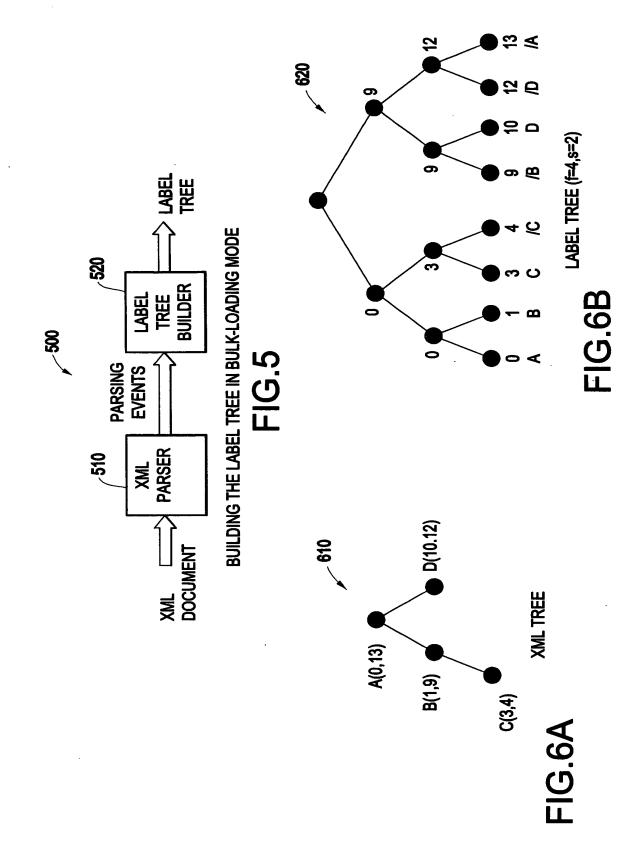


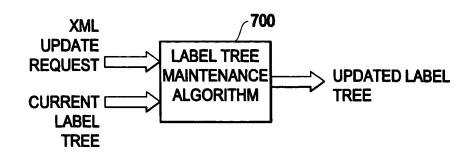


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 </Buyer>
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      <Description>
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      </Description>
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    </ltem>
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    </ltem>
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FIG.3

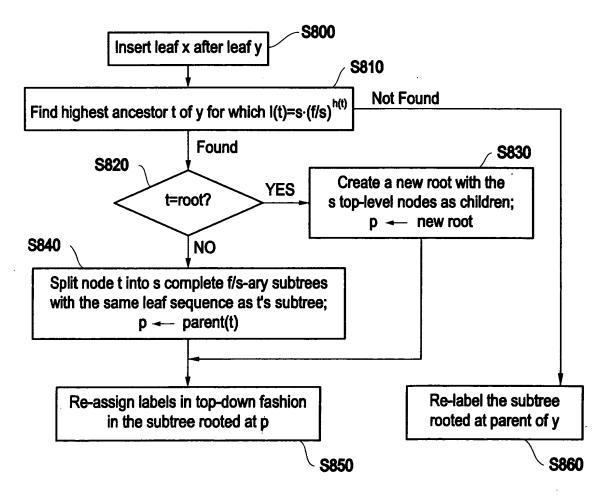




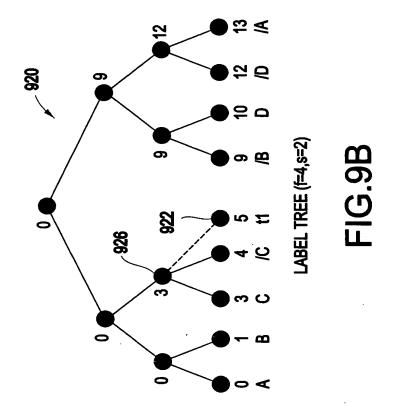


MAINTAINING THE LABEL TREE IN RESPONSE TO UPDATES

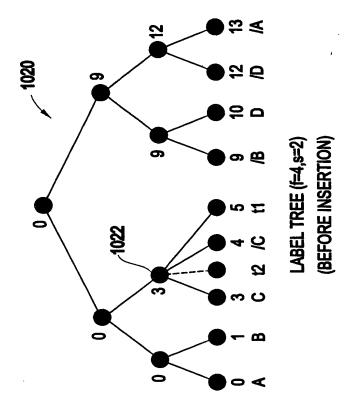
FIG.7



LABEL TREE MAINTENANCE ALGORITHM FIG.8



A(0,13) B(1,9) D(10.12) C(3,4) XML TREE TIG.9A



D(10,12)

B(1,9)

C(3,4)

A(0,13)

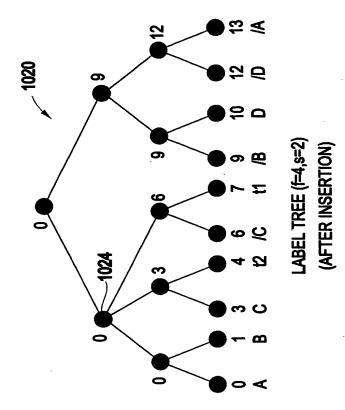
FIG.10A

XML TREE (BEFORE INSERTION)

1014

Ø

FIG. 10B



D(10.12)

B(1,9)

A(0,13)

t1(7)

C(3,6)

1014

FIG.10D

XML TREE (AFTER INSERTION) FIG.10C

